Atty Dkt No. JANS0101PUSA

S/N: 10/599,571

Reply to Office Action of October 1, 2009

Amendments to the Specification:

Please amend numbered paragraph 0017, as shown below:

[0017] In Adrian Bailey at p. 75, and in several patents (U.S. Pat. No. 4,830,872 Grenfell, U.S.

Pat. No. 5,503,336 Wichmann), the good dispersion obtained by electrostatic spraying at low

volume throughputs are mentioned, the two patents mention respectively 0.5 ml/cm [[m1/cm]]

of blade length per minute and 0.006 cc/min per inch of nozzle.

Please amend numbered paragraph 0010, as shown below:

[0110] FIG. 3 shows a flow distribution module 40, with threaded inlet 44[[55]]. The module is

made from an electrically insulating material. Inlet 44 [[55]] is connected to distribution groove

43 [[54]] which distributes the flowable material over the width of the module. As this is a

module for spraying downwards, the inlet is located below the level of the distribution groove

43[[54]]. For upwards spraying this would be the other way around.

Please amend numbered paragraph 0011, as shown below:

[0111] An O-ring groove 42 [[53]] assembled with an O-ring, provides a seal to the vertical

member in the assembly.

Please amend numbered paragraph 0012, as shown below:

[0112] Grooves 45 [[56]] provide a path for the flowable liquid in the direction of the

electrostatic field. Opposite grooves 45 [[56]] is a conductive charging strip. The grooves 45 are

shown only in the left hand portion of the face of the flow distribution module, but of course

occupy the full area between the O-ring grooves 42. The shape of the grooves 45 can be

triangular, rounded, rectangular or a combination of these shapes. A triangular shape is shown

in FIG. 3.

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Please amend numbered paragraph 0013, as shown below:

[0113] In FIG. 4, the flow distribution modules 40 are shown assembled with member 54 and

charging strips 59. Nonconductive foil or sheet <u>58</u>[[57]] is placed above the conductive strip 59,

and non-conductive foil or sheet 60 is placed below the module. The last can be sharpened to a

point as this helps to concentrate the electrical field and more ligaments can be formed. Or it can

be very thin and is therefore sharp by itself. it shelf.

Please amend numbered paragraph 0116, as shown below:

[0116] Horizontal members 52 and vertical parts members 55 form a clamp arrangement 55.

Please amend numbered paragraph 0120, as shown below:

[0120] A clamp arrangement 55 is used as for the flow distribution modules to keep two end caps

61 in place using bolts 56. End caps 61 are provided with a depression to accommodate the head

and nut of the through bolt. End caps 61 do not have Oring grooves. The nonconductive foil or

insulator 58 goes around the conductive strip 59 at both ends of the spray assembly on member

54, thereby insulating conductive strips 59 at either end of the assembly.

Please amend numbered paragraph 0131, as shown below:

[0131] FIG. 10 shows the spraying of a shaped baking tray 78 with cooking oil. The tray 78 is

made of metal and forms the grounded target for the cooking oil spray. Vertical member 54 is

shaped to follow the contour of the baking tray. The spray distribution modules module ends 80

on both sides of spray distribution module 40 are angled on one side to accommodate the contour

to be sprayed.

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Please amend numbered paragraph 0133, as shown below:

[0133] FIG. 11 shows the coating of a steel sheet <u>84</u> with oil for lubrication and corrosion protection.